

Parameter	Unit	Value
Temperature	°C	25.0
Pressure	atm	1.0
Flow rate	L/min	1.0
Sample concentration	mg/mL	1.0
Sample volume	μL	1.0
Sample weight	mg	1.0
Sample height	cm	1.0
Sample width	cm	1.0
Sample depth	cm	1.0
Sample area	cm <sup>2</sup>	1.0
Sample volume	cm <sup>3</sup>	1.0
Sample weight	g	1.0
Sample height	mm	1.0
Sample width	mm	1.0
Sample depth	mm	1.0
Sample area	mm <sup>2</sup>	1.0
Sample volume	mm <sup>3</sup>	1.0
Sample weight	mg	1.0
Sample height	μm	1.0
Sample width	μm	1.0
Sample depth	μm	1.0
Sample area	μm <sup>2</sup>	1.0
Sample volume	μm <sup>3</sup>	1.0
Sample weight	ng	1.0
Sample height	nm	1.0
Sample width	nm	1.0
Sample depth	nm	1.0
Sample area	nm <sup>2</sup>	1.0
Sample volume	nm <sup>3</sup>	1.0
Sample weight	pg	1.0
Sample height	Å	1.0
Sample width	Å	1.0
Sample depth	Å	1.0
Sample area	Å <sup>2</sup>	1.0
Sample volume	Å <sup>3</sup>	1.0
Sample weight	fg	1.0
Sample height	fm	1.0
Sample width	fm	1.0
Sample depth	fm	1.0
Sample area	fm <sup>2</sup>	1.0
Sample volume	fm <sup>3</sup>	1.0
Sample weight	ag	1.0
Sample height	pm	1.0
Sample width	pm	1.0
Sample depth	pm	1.0
Sample area	pm <sup>2</sup>	1.0
Sample volume	pm <sup>3</sup>	1.0
Sample weight	zg	1.0
Sample height	fm	1.0
Sample width	fm	1.0
Sample depth	fm	1.0
Sample area	fm <sup>2</sup>	1.0
Sample volume	fm <sup>3</sup>	1.0
Sample weight	yg	1.0
Sample height	pm	1.0
Sample width	pm	1.0
Sample depth	pm	1.0
Sample area	pm <sup>2</sup>	1.0
Sample volume	pm <sup>3</sup>	1.0
Sample weight	hg	1.0
Sample height	nm	1.0
Sample width	nm	1.0
Sample depth	nm	1.0
Sample area	nm <sup>2</sup>	1.0
Sample volume	nm <sup>3</sup>	1.0
Sample weight	mg	1.0
Sample height	μm	1.0
Sample width	μm	1.0
Sample depth	μm	1.0
Sample area	μm <sup>2</sup>	1.0
Sample volume	μm <sup>3</sup>	1.0
Sample weight	g	1.0
Sample height	cm	1.0
Sample width	cm	1.0
Sample depth	cm	1.0
Sample area	cm <sup>2</sup>	1.0
Sample volume	cm <sup>3</sup>	1.0
Sample weight	kg	1.0
Sample height	m	1.0
Sample width	m	1.0
Sample depth	m	1.0
Sample area	m <sup>2</sup>	1.0
Sample volume	m <sup>3</sup>	1.0
Sample weight	t	1.0
Sample height	km	1.0
Sample width	km	1.0
Sample depth	km	1.0
Sample area	km <sup>2</sup>	1.0
Sample volume	km <sup>3</sup>	1.0
Sample weight	Gt	1.0
Sample height	Mm	1.0
Sample width	Mm	1.0
Sample depth	Mm	1.0
Sample area	Mm <sup>2</sup>	1.0
Sample volume	Mm <sup>3</sup>	1.0
Sample weight	kg	1.0
Sample height	km	1.0
Sample width	km	1.0
Sample depth	km	1.0
Sample area	km <sup>2</sup>	1.0
Sample volume	km <sup>3</sup>	1.0
Sample weight	kg	1.0
Sample height	km	1.0
Sample width	km	1.0
Sample depth	km	1.0
Sample area	km <sup>2</sup>	1.0
Sample volume	km <sup>3</sup>	1.0
Sample weight	kg	1.0
Sample height	km	1.0
Sample width	km	1.0
Sample depth	km	1.0
Sample area	km <sup>2</sup>	1.0
Sample volume	km <sup>3</sup>	1.0
Sample weight	kg	1.0
Sample height	km	1.0
Sample width	km	1.0
Sample depth	km	1.0
Sample area	km <sup>2</sup>	1.0
Sample volume	km <sup>3</sup>	1.0
Sample weight	kg	1.0
Sample height	km	1.0
Sample width	km	1.0
Sample depth	km	1.0

7) The method in claim 6 wherein the pixels values in multiple images which are aligned with each pixel position are averaged and the averaged images a combined to fill the holes in a Bayer square.

8) A method combining a generating a high resolution image from a plurality of low resolution images comprising,  
producing a physical image which includes a hidden reference signal,  
capturing a plurality of low resolution electronic images of said physical image,  
using said reference signal to align a plurality of said low resolution images,  
combining said aligned low resolution images into a high resolution image.

9) The method recited in claim 8 wherein said low resolution images are aligned in accordance with the holes in a Bayer square.

10) The method recited in claim 8 wherein a plurality of low resolution images are captured and only those low resolution images which align to within a specified tolerance with the holes in a Bayer square are used to form said composite image.

11) A system for generating a high resolution image from a series of nearly identical relatively low resolution images including  
a watermark reading program for reading a watermark grid signal from each of said low resolution images to determine the alignment of the pixels in the low resolution images relative to the positions in a Bayer square,  
an image selection program for selecting the low resolution images whose pixels are within a specified tolerance from each position in the Bayer square,  
an image combination program for combining the selected low resolution images to generate a high resolution image.

12) A system for generating a high resolution images from a plurality of relatively low resolution images whose pixel values are in a Bayer square configuration,  
means determining which of said images align with each pixel position of a Bayer square to within a specified tolerance,

means combining multiple aligned low resolution images to fill in the holes in a Bayer square.

13) A method combining a generating a high resolution image from a plurality of relatively low resolution images comprising,  
producing a physical image which includes a hidden reference signal,  
capturing a plurality of low resolution electronic images of said physical image,  
using said reference signal to align a plurality of said images,  
combining said aligned images into a high resolution image.

14) The method recited in claim 13 wherein each of said low resolution images are combined to fill holes in a Bayer square.

15) The method recited in claim 13 wherein a plurality of low resolution images are captured and only a selected number of said low resolution images are used to form said high resolution image.

16) The method recited in claim 13 wherein said reference signal is a watermark grid signal.

17) The method of generating a high resolution image from a plurality of low resolution images comprising the steps of,  
capturing a series of low resolution images, each of which contain a reference signal,  
reading said reference signal from each of said low resolution images,  
aligning said low resolution images in accordance the location of said reference signal,  
combining said aligned low resolution images into a high resolution image.

